

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/04550

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B23/40 G11B23/38 G11B23/36 G11B7/26 G11B27/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/126617 A1 (EMBERTY ROBERT GEORGE ET AL) 12 September 2002 (2002-09-12)  the whole document	1,2, 8-10,12, 14
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 10, 31 August 1999 (1999-08-31) & JP 11 134648 A (SONY CORP), 21 May 1999 (1999-05-21) abstract -& JP 11 134648 A (SONY CORP) 21 May 1999 (1999-05-21) figures 3,4	1-3, 8-11,14
A	US 4 967 286 A (NOMULA RAM R ET AL) 30 October 1990 (1990-10-30) the whole document	1-3, 8-11,14



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

24 February 2004

Date of mailing of the international search report

02/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Daalmans, F

## INTERNATIONAL SEARCH REPORT

In International Application No  
PCT/IB 03/04550

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/030705 A1 (YOUNGBERG ET AL.) 14 March 2002 (2002-03-14) the whole document	1-3, 8-11,14
A	EP 1 041 563 A (VICTOR COMPANY OF JAPAN) 4 October 2000 (2000-10-04) column 12, paragraph 0045 - column 14, line 35	1-3,8,14
P,A	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 03, 5 May 2003 (2003-05-05) & JP 2002 324380 A (RICOH CO LTD), 8 November 2002 (2002-11-08) abstract	1-3,14
P,A	-& JP 2002 324380 A (RICOH CO LTD) 8 November 2002 (2002-11-08) figures 1-3	1-3,14
P,A	EP 1 274 084 A (HITACHI LTD) 8 January 2003 (2003-01-08) the whole document	1-3, 8-11,14
A	WO 02/41316 A (WERNER ANTONIUS J J ; YNTEMA GERTJAN (NL); KONINKL PHILIPS ELECTRONICS) 23 May 2002 (2002-05-23) cited in the application the whole document	1,14
A	EP 1 098 303 A (MATSUSHITA ELECTRIC IND CO LTD) 9 May 2001 (2001-05-09) the whole document	1,4,5,14
A	US 5 297 131 A (TANAKA SHOSUKE) 22 March 1994 (1994-03-22) the whole document	1,8-14

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/IB 03/04550

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002126617	A1	12-09-2002	NONE	
JP 11134648	A	21-05-1999	NONE	
US 4967286	A	30-10-1990	NONE	
US 2002030705	A1	14-03-2002	NONE	
EP 1041563	A	04-10-2000	JP 2000276777 A CN 1268742 A EP 1041563 A1 US 6507557 B1	06-10-2000 04-10-2000 04-10-2000 14-01-2003
JP 2002324380	A	08-11-2002	NONE	
EP 1274084	A	08-01-2003	JP 2003016649 A CN 1393856 A EP 1274084 A2 US 2003001943 A1	17-01-2003 29-01-2003 08-01-2003 02-01-2003
WO 0241316	A	23-05-2002	AU 2070402 A BR 0107606 A CA 2397242 A1 CN 1416570 T WO 0241316 A1 EP 1338010 A1 US 2003172276 A1	27-05-2002 15-10-2002 23-05-2002 07-05-2003 23-05-2002 27-08-2003 11-09-2003
EP 1098303	A	09-05-2001	DE 60006632 D1 EP 1098303 A1 DE 60006397 D1 DE 60006538 D1 DE 60006681 D1 EP 1204098 A2 EP 1204099 A2 EP 1204100 A2 EP 1204101 A2 EP 1204102 A2 EP 1204103 A2 EP 1204104 A2 WO 0072317 A1 JP 3169365 B2 JP 2001043533 A JP 3173509 B1 JP 2001195740 A JP 3173604 B1 JP 2001195741 A JP 3173605 B1 JP 2001195742 A JP 3173606 B1 JP 2001195748 A JP 3173607 B1 JP 2001189049 A SG 96668 A1 TW 513720 B US 2002159357 A1 US 2002159358 A1 US 2002114241 A1	24-12-2003 09-05-2001 11-12-2003 18-12-2003 24-12-2003 08-05-2002 08-05-2002 08-05-2002 08-05-2002 08-05-2002 08-05-2002 08-05-2002 30-11-2000 21-05-2001 16-02-2001 04-06-2001 19-07-2001 04-06-2001 19-07-2001 04-06-2001 19-07-2001 04-06-2001 19-07-2001 04-06-2001 19-07-2001 10-07-2001 16-06-2003 11-12-2002 31-10-2002 31-10-2002 22-08-2002

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PC 17 IB 03/04550

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1098303	A		US 2002114238 A1	22-08-2002
			US 2002118622 A1	29-08-2002
			US 2002159359 A1	31-10-2002
			US 2002159360 A1	31-10-2002
			US 2002159361 A1	31-10-2002
US 5297131	A	22-03-1994	JP 3063230 B2	12-07-2000
			JP 4355218 A	09-12-1992
			DE 69219400 D1	05-06-1997
			DE 69219400 T2	21-08-1997
			EP 0516125 A2	02-12-1992
			KR 255735 B1	01-05-2000

## PCT REQUEST

Original (for SUBMISSION) - printed on 10.10.2003 01:07:45 PM

VIII-2-1	<b>Declaration: Entitlement to apply for and be granted a patent</b> Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name:	<b>in relation to this international application</b>  KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1 (ii)		KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, LAMBERT, Nicolaas
VIII-2-1 (ii)		KONINKLIJKE PHILIPS ELECTRONICS N.V. is entitled as employer of the inventor, DENISSEN, Adrianus, J., M.
VIII-2-1 (ix)	This declaration is made for the purposes of:	all designations except the designation of the United States of America